

PUBLICATIONS BELLE2 – 11 MAY 2025

article

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1. Measurement of the integrated luminosity of data samples collected during 2019-2022 by the Belle II experiment, Adachi, I. *et al.*, Belle2 Collaboration, Chin. Phys. C 49 (2025) 013001
2. Measurement of CP asymmetries in $B^0 \rightarrow K_S^0 \pi^0 \gamma$ decays at Belle II, Adachi, I. *et al.*, Belle2 Collaboration, Phys. Rev. Lett 134 (2025) 011802
3. Observation of time-dependent CP violation and measurement of the branching fraction of $B^0 \rightarrow J/\psi \pi^0$ decays, Adachi, I. *et al.*, Belle2 Collaboration, Phys. Rev. D 111 (2025) 012011
4. Measurement of the time-integrated CP asymmetry in $D^0 \rightarrow K_S^0 K_S^0$ decays using Belle and Belle II data, Adachi, I. *et al.*, Phys. Rev. D 111 (2025) 012015
5. Observation of the decay $B^0 \rightarrow J/\psi \omega$ at Belle II, Adachi, I. *et al.*, Belle2 Collaboration, Phys. Rev. D 111 (2025) 032012

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3. First measurement of $R(X_{\tau/\ell})$ as an inclusive test of the $b \rightarrow c\tau\nu$ anomaly, Adachi, I. *et al.*, Belle2 Collaboration, Phys. Rev. Lett 132 (2024) 211804
4. Evidence for $B^+ \rightarrow K^+ \nu \bar{\nu}$ Decays, Adachi, I. *et al.*, Belle2 Collaboration, Phys. Rev. D 109 (2024) 112006
5. Search for the $e^+e^- \rightarrow \eta_b(1S)\omega$ and $e^+e^- \rightarrow \chi_{b0}(1P)\omega$ processes at $\sqrt{s} = 10.745$ GeV, Adachi, I. *et al.*, Belle2 Collaboration, Phys. Rev. D 109 (2024) 072013
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7. Study of $\Upsilon(10753)$ decays to $\pi^+\pi^-\Upsilon(nS)$ final states at Belle II, Adachi, I. *et al.*, Belle2 Collaboration, J. High Energy Phys. 07 (2024) 116
8. Measurement of CP asymmetries in $B^0 \rightarrow \eta' K_S^0$ decays at Belle II, Adachi, I. *et al.*, Belle2 Collaboration, Phys. Rev. D 110 (2024) 112002

9. The silicon vertex detector of the Belle II experiment, A. Gabrielli *et al.*, Belle-II SVD Collaboration, Nucl. Instrum. Meth. A 1064 (2024) 169401
10. The DMAPS upgrade of the Belle II vertex detector, M. Babeluk *et al.*, Belle2 Collaboration, Nucl. Instrum. Meth. A 1064 (2024) 169428
11. A new graph-neural-network flavor tagger for Belle II and measurement of $\sin 2\phi_1$ in $B^0 \rightarrow J/\psi K_S^0$ decays, Adachi, I. *et al.*, Belle2 Collaboration, Phys. Rev. D 110 (2024) 012001
12. Measurement of CP asymmetries in $B^0 \rightarrow K_S^0 K_S^0 K_S^0$ decays at Belle II, Adachi, I. *et al.*, Belle2 Collaboration, Phys. Rev. D 109 (2024) 112020
13. Search for a $\mu^+\mu^-$ resonance in four-muon final states at Belle II, Adachi, I. *et al.*, Belle2 Collaboration, Phys. Rev. D 109 (2024) 112015
14. Measurement of the $e^+e^- \rightarrow \pi^+\pi^-\pi^0$ cross section in the energy range 0.62-3.50 GeV at Belle II, Adachi, I. *et al.*, Belle2 Collaboration, Phys. Rev. D 110 (2024) 112005
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16. Measurement of the branching fraction of the decay $B^- \rightarrow D^0\rho(770)^-$ at Belle II, Adachi, I. *et al.*, Belle2 Collaboration, Phys. Rev. D 109 (2024) L111103
17. Determination of the CKM angle ϕ_3 from a combination of Belle and Belle II results, Adachi, I. *et al.*, J. High Energy Phys. 10 (2024) 143
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19. Test of light-lepton universality in τ decays with the Belle II experiment, I. Adachi *et al.*, Belle2 Collaboration, J. High Energy Phys. 08 (2024) 205
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21. Search for the decay $B^0 \rightarrow \gamma\gamma$ using Belle and Belle II data, Adachi, I. *et al.*, Phys. Rev. D 110 (2024) L031106
22. Measurements of the branching fractions of $\Xi_c^0 \rightarrow \Xi^0\pi^0$, $\Xi_c^0 \rightarrow \Xi^0\eta$, and $\Xi_c^0 \rightarrow \Xi^0\eta'$ and asymmetry parameter of $\Xi_c^0 \rightarrow \Xi^0\pi^0$, Adachi, I. *et al.*, Belle2 Collaboration, J. High Energy Phys. 10 (2024) 045
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14. Precise Measurement of the D_s^+ Lifetime at Belle II, Adachi, I. *et al.*, Belle2 Collaboration, Phys. Rev. Lett 131 (2023) 171803

15. Measurement of CP asymmetries and branching-fraction ratios for $B^\pm \rightarrow DK^\pm$ and $D\pi^\pm$ with $D \rightarrow K_s^0 K^\pm \pi^\mp$ using Belle and Belle II data, Adachi, I. *et al.*, J. High Energy Phys. 09 (2023) 146
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17. Search for a $\tau^+\tau^-$ resonance in $e^+e^- \rightarrow \mu^+\mu^-\tau^+\tau^-$ events with the Belle II experiment, Adachi, I. *et al.*, Belle2 Collaboration, Phys. Rev. Lett 131 (2023) 121802
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4. Design of the OBELIX monolithic CMOS pixel sensor for an upgrade of the Belle II vertex detector, T. H. Pham, D. Auguste, M. Babeluk, M. Barbero, J. Baudot, T. Bergauer, F. Bernlochner, G. Bertolone, S. Bettarini, F. Bosi, J. Bonis, R. Boudagga, P. Breugnon, Y. Buch, F. Buchsteiner, M. S. Calo, G. Casarosa, J. Dingfelder, A. Dorokhov, L. Federici, T. Fillinger, C. Finck, F. Forti, D. Fougeron, A. Frey, L. Gaioni, S. Giroletti, A. Himmi, E. Kou, C. Hu Guo, C. Irmmler, M. Karagounis, T. Kishishita, H. Krüger, A. Kumar, C. Marinas, M. Massa, L. Massaccesi, J. Mazorra de Cos, M. Minuti, S. Mondal, F. Morel, K. Nakamura, P. Pangaud, Y. Peinaud, L. Ratti, V. Re, E. Riceputi, I. Ripp Baudot, G. Rizzo, L. Schall, C. Schwanda, B. Schwenker, M. Schwickardi, P. Stavroulakis, S. Wang, C. Wessel, M. Winter, G. Traversi, I. Valin, D. Xu, J. Instrum, 19, Topical Workshop on Electronics for Particle Physics (2024) C04020, Geremeas, Italy, 2-06 Oct 2023
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4. Status of the BELLE II Pixel Detector, Giakoustidis, Georgios, Abudinen, Fernando, Ackermann, Karlheinz, Ahlburg, Patrick, Albalawi, Mohammed, Alonso, Oscar, Andricek, Laci, Ayad, Rachid, Babu, Varghese, Baur, Anselm,

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6. Belle II status and prospects for studies of neutral currents, V. Bertacchi, J. Instrum, 18, New Frontiers in Lepton Flavor 2023 (2023) C08015, Pisa, Italy, 15-17 May 2023
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5. Measurement of the cluster position resolution of the Belle II Silicon Vertex Detector, R. Leboucher, K. Adamczyk, L. Aggarwal, H. Aihara, T. Aziz, S. Bacher, S. Bahinipati, G. Batignani, J. Baudot, P. K. Behera, S. Bettarini, T. Bilka, A. Bozek, F. Buchsteiner, G. Casarosa, L. Corona, T. Czank, S. B. Das, G. Dujany, C. Finck, F. Forti, M. Friedl, A. Gabrielli, E. Ganiev, B. Gobbo, S. Halder, K. Hara, S. Hazra, T. Higuchi, C. Irmeler, A. Ishikawa, H. B. Jeon, Y. Jin, C. Joo, M. Kaleta, A. B. Kaliyar, J. Kandra, K. H. Kang, P. Kapusta, P. Kodyš, T. Kohriki, M. Kumar, R. Kumar, C. La Licata, K. Lalwani, S. C. Lee, J. Libby, L. Martel, L. Massaccesi, S. N. Mayekar, G. B. Mohanty, T. Morii, K. R. Nakamura, Z. Natkaniec, Y. Onuki, W. Ostrowicz, A. Paladino, E. Paoloni, H. Park, L. Polat, K. K. Rao, I. Ripp-Baudot, G. Rizzo, D. Sahoo, C. Schwanda, J. Serrano, J. Suzuki, S. Tanaka, H. Tanigawa, R. Thalmeier, R. Tiwary, T. Tsuboyama, Y. Uematsu, O. Verbycka, L. Vitale, K. Wan, Z. Wang, J. Webb, J. Wiechczynski, H. Yin, L. Zani, Nucl. Instrum. Meth. A, 1033, 30th International Workshop on Vertex Detectors (2022) 166746, Online, United Kingdom, 27-30 Sep 2021

2021

1. Track reconstruction efficiency measurement using $e^+e^- \rightarrow \tau^+\tau^-$ events at Belle II, L. Zani, PoS ICHEP2020, 2020, 40th International Conference on High Energy Physics (2021) 797, Prague, indéfini, 30 Jul - 05 Aug 2020

2020

1. Track reconstruction efficiency measurement using $e^+e^- \rightarrow \tau^+\tau^-$ events at Belle II, L. Zani, PoS, volume, ICHEP2020 (2020) pages, indéfini, 28 Jul 2020 - 6 Aug 2020

présentation orale

2025

1. Search for Lepton Flavour Violating $B0 \rightarrow K0 \ell \ell'$ decays with the Belle and Belle II experiments, **C. Lemettais**, 59th Rencontres de Moriond, La Thuile, Italy, 23-30 Mar 2025

2024

1. Topical workshop on LFV decays of the tau lepton, **J. Serrano**, Topical workshop on LFV decays of the tau lepton, Orsay, France, 11-12 Apr 2024
2. Cracow Epiphany conference, **K. Lautenbach**, XXX Cracow Epiphany conference on precision physics at high energy colliders, Cracovie, Poland, 8-12 Jan 2024
3. Recent beauty measurements from Belle and Belle II, **V. Bertacchi**, La Thuile 2024 - Les Rencontres de Physique de la Vallée d'Aoste, La Thuile, Italy, 3-9 Mar 2024
4. Beyond the Flavour Anomalies workshop, V. Lisovskyi, Beyond the Flavour Anomalies workshop, Siegen, Germany, 9-11 Apr 2024
5. International Conference on New Frontiers in Physics, A. Thaller, XIII International Conference on New Frontiers in Physics, Kolymbari, C, Greece, 4 Sep 2024

2023

1. Moriond QCD 2023, **V. Bertacchi**, Moriond QCD 2023, La Thuile, Italy, 24-27 Mar 2023
2. New frontiers in lepton flavour, **V. Bertacchi**, New frontiers in lepton flavour, Pisa, Italy, 15-17 May 2023
3. BEAUTY 2023, **R. Leboucher**, BEAUTY 2023, Clermont Ferrand, France, 5-10 Jul 2023
4. CKM 2023, **J. Serrano**, CKM2023, Santiago de Compostela, Spain, 18-23 Sep 2023
5. GDR-InF annual workshop 2023, **V. Bertacchi**, **A. Thaller**, K. Lautenbach, C. Lemettais, GDR-InF annual workshop, Mont Saint Odile, France, 6-8 Nov 2023

2022

1. VCI 2022, **L. Zani**, VCI 2022, , indéfini, 21-25 Feb 2022
2. DIS 2022, **K. Lautenbach**, DIS 2022, , indéfini, 2-6 Mai 2022
3. Blois 2022, **L. Zani**, Blois 2022, , indéfini, 22-27 May 2022

4. QCD 2022, **V. Bertacchi**, QCD 2022, Montpellier, France, 4-9 Jul 2022
5. Vietnam Flavour Physics Conference 2022, **L. Polat**, Vietnam Flavour Physics Conference 2022, Quy Nhon, Vietnam, 14-20 Aug 2022
6. BLV 2022, **J. Serrano**, BLV 2022, Brussel, Belgium, 5-8 Sep 2022
7. GDR-InF annual workshop 2022, V. Bertacchi, A. Thaller, L. Polat, R. Leboucher, GDR-InF annual workshop, Lyon, France, 2-4 Nov 2022

2021

1. Phenomenology 2021 Symposium, **L. Polat**, Phenomenology 2021 Symposium, , indéfini, 24-26 May 2021
2. Flavour Physics from non LHC experiments, **J. Serrano**, LHCP 2021, Paris, France, 7-12 Jun 2021
3. Anomalies and Precision in the Belle II Era – Workshop, **L. Zani**, Anomalies and Precision in the Belle II Era – Workshop, Vienna, Austria, 8-9 Sep 2021
4. The 30th International Workshop on Vertex Detectors, **R. Leboucher**, The 30th International Workshop on Vertex Detectors, Oxford, United Kingdom, 27-30 Sep 2021
5. Precision Electroweak Physics at the CERN Large Hadron Collider, **V. Bertacchi**, Precision Electroweak Physics at the CERN Large Hadron Collider, Milan, Italy, 5-6 Oct 2021
6. GDR-InF annual workshop 2021, **L. Zani**, GDR-InF annual workshop, Paris, France, 14-15 Nov 2021
7. GdR-Inf 2021 annual workshop, **R. Leboucher**, L. Martel, GdR-Inf 2021 annual workshop, Paris, France,

2020

1. ICHEP2020, **L. Zani**, ICHEP 2020, Prague, indéfini, 28 Jul - 6 Aug 2020
2. BEAUTY2020, **L. Zani**, BEAUTY2020, , indéfini, 21-24 Sep 2020
3. GDR-InF annual workshop 2020, **L. Polat**, T. Fillinger, GDR-InF annual workshop 2020, , indéfini, 28 Sep - 16 Oct 2020

2019

1. GDR-InF annual workshop 2019, **L. Zani**, GDR-InF annual workshop 2019, Sommières, France, 6 Nov 2019

affiche

2022

1. A Graph Neural Network for B decays reconstruction at Belle II, J. Cerasoli, J. Kahn, I. Tsaklidis, O. Taubert, L. Reuter, G. Dujany, T. Boeckh, [A. Thaller](#), P. Goldenzweig, F. Bernlochner, A. Streit, M. Götz, 21th International Workshop on Advanced Computing and Analysis Techniques in Physics Research: AI meets Reality (ACAT 2022), Bari, Italy, 23-28 Oct 2022

mémoire

2024

1. Recherche de désintégrations du tau violant la saveur leptonique et études de trajectographie dans l'expérience Belle II, A. Thaller, Aix-Marseille Université, 28 Oct 2024

2023

1. Search for $\tau^- \rightarrow \mu^- \mu^+ \mu^-$ lepton flavour violating decays and measurement of the SVD cluster position resolution at Belle II experiment, R. Leboucher, Aix-Marseille Université, 31 Oct 2023

2022

1. Recherche de désintégrations $\rightarrow\rightarrow$ violant la saveur leptonique et mesure du taux de fausses traces dans les événements $e+e\rightarrow+e+e\rightarrow+$ avec l'expérience Belle II, L. Polat, Aix- Marseille Université, 14 Dec 2022